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☐ 1. Document ID: US 6601593 B2

L1: Entry 1 of 10

File: USPT

Aug 5, 2003

US-PAT-NO: 6601593

DOCUMENT-IDENTIFIER: US 6601593 B2

TITLE: Household dishwasher

DATE-ISSUED: August 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deiss; Ulrich	Sontheim			DE
Jerg; Helmut	Giengen			DE
Schessl; Bernd	Dillingen			DE
Rosenbauer; Michael	Reimlingen			DE

US-CL-CURRENT: 134/25.2; 134/191, 134/57D, 134/58D

ABSTRACT:

A household dishwasher, includes a dishwashing compartment, a circulating pump for delivering liquid to the dishwashing compartment, a flow heater having an inflow connection fluidically connected to the circulating pump and at least two outlet connections, spray devices disposed in the dishwashing compartment and fluidically connected to outlet connections for supplying the liquid to each of the spray devices, and a changeover device for selectively opening and closing the spray devices. The spray devices subject items disposed in the dishwashing compartment and to be cleaned to an action of a liquid delivered by the circulating pump. The changeover device is disposed in a non-restricting location at the flow heater upstream of the outlet connections with respect to a liquid flow direction and opens and/or closes one of the outlet connections or a number of outlet connections or all the outlet connections are alternately one after the other and/or on a permanent basis. A method is also provided.

19 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Searches	Examinations	Claims	KWIC	Draw Ds
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☐ 2. Document ID: US 6318403 B1

L1: Entry 2 of 10

File: USPT

Nov 20, 2001

US-PAT-NO: 6318403

DOCUMENT-IDENTIFIER: US 6318403 B1

TITLE: Combination manifold and check valve for a water heater

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fritz; Sammy G.	Frisco	TX	75034	

US-CL-CURRENT: 137/312; 122/504, 122/507, 137/112, 137/113, 137/2, 137/527.8,
137/533.11, 137/539, 137/605, 141/86, 220/571, 222/108

ABSTRACT:

The present invention disclosed and claimed herein comprises, in one aspect thereof, a combination manifold and check valve assembly for a water heater unit which includes a temperature and pressure relief valve and a drain pan. The assembly comprises a manifold body having a first inlet opening, a second inlet opening, and an outlet opening which are in fluid communication. The first inlet opening is adapted for connection to the outlet of a temperature and pressure relief valve. The second inlet opening is adapted for connection to the outlet of a drain pan. The outlet opening is adapted for connection to a drain line. A valve member is disposed within the manifold body between the first inlet opening and the second inlet opening. The valve member is movable between a first position wherein the valve member does not block fluid flow between the second inlet opening and the outlet opening, and a second position wherein the valve member blocks fluid flow between the first inlet opening and the second inlet opening and between the second inlet opening and the outlet opening. The valve member is urged into the first position when there is no significant fluid flow between the first inlet opening and the outlet opening. The valve member is urged into the second position when there is significant fluid flow between the first inlet opening and the outlet opening.

21 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. Des
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☐ 3. Document ID: US 6202689 B1

L1: Entry 3 of 10

File: USPT

Mar 20, 2001

US-PAT-NO: 6202689

DOCUMENT-IDENTIFIER: US 6202689 B1

TITLE: Fluid-collecting receptacle having hinged upper sheet

DATE-ISSUED: March 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Kevin M.	Middletown	CT	06457	

US-CL-CURRENT: 137/602; 137/312, 137/362, 137/561R, 604/356

ABSTRACT:

A fluid-collecting receptacle includes a fluid-impervious base sheet having an upstanding perimeter lip, a sloping floor, and a fluid outlet in the floor. A porous support member is disposed atop the upper surface of the base sheet and a porous, flexible mat is disposed atop the porous support member. Openings in the mat and the porous support member permit fluid to be discharged onto the sloping floor where removal through the fluid outlet can be accomplished by means of a suction device. The device can be equipped with suction cups to prevent slippage or a rigidified foam core to strengthen the device and prevent slippage. In an alternative embodiment, the porous support member and the mat are replaced by a hinged sheet formed of a plurality of small basins each having a drain opening.

8 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 4. Document ID: US 5645103 A

L1: Entry 4 of 10

File: USPT

Jul 8, 1997

US-PAT-NO: 5645103

DOCUMENT-IDENTIFIER: US 5645103 A

TITLE: Water heater stand with overflow catch basin

DATE-ISSUED: July 8, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Whittaker; David S.	Belington	WV	26250	

US-CL-CURRENT: 137/312; 137/315.01, 137/362, 220/571, 222/108, 248/146, 248/346.01

ABSTRACT:

A water heater stand with overflow catch basin having a flat, horizontally elongated stand member having a generally round shape and surrounded by a continuous vertical wall circumscribing the perimeter. A drain is provided, as well as a plurality of elevated support members, each said support member formed integral to said bottom surface and extending upward. Drainage channels are formed between adjacent support members, and a curved, laterally extended area projecting outward accommodates the tank drainage valve of a hot water heater tank.

Additionally, a vertically extended splash guard attachable in order to extend the vertical height of the sidewalls.

6 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 5. Document ID: US 5392911 A

L1: Entry 5 of 10

File: USPT

Feb 28, 1995

US-PAT-NO: 5392911
DOCUMENT-IDENTIFIER: US 5392911 A

TITLE: Two barrel hazardous material spill skid

DATE-ISSUED: February 28, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gillispie; John G.	Wellsburg	WV		
Mitchell; Donald J.	Wellsburg	WV		

US-CL-CURRENT: 206/386; 108/56.3, 108/57.13, 108/901, 206/600

ABSTRACT:

A hazardous material spill skid for use with one or two barrels has a tray with upwardly and outwardly extending side walls and end walls and a bottom wall with an upwardly extending hollow support post. The side and end walls have horizontal flanges with an upper surface coplanar with the upper surface of the support post, and an upwardly extending rim. Preferably, a side wall locking lip is provided on one of the side walls and an end wall locking lip on each end wall to secure a grate to the tray. The grate is preferably a blow molded unit having hollow parallel bars and cross-bars contained within a hollow frame.

10 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 6. Document ID: US 5199457 A

L1: Entry 6 of 10

File: USPT

Apr 6, 1993

US-PAT-NO: 5199457
DOCUMENT-IDENTIFIER: US 5199457 A

TITLE: Leak detecting surface protector

DATE-ISSUED: April 6, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miller; David R.	Portland	OR	97219	

US-CL-CURRENT: 137/312; 220/571, 222/108

ABSTRACT:

A device comprised of impervious material, sloping back to front, for collecting leakage from plumbing fixtures and waste and supply lines that will protect the surface on which said device is installed on or built into, such as but not limited to sink cabinetry and flooring underneath, from damage with an area at the front of the liquid collection receptacle for leakage accumulation and leakage detection, as well as providing a horizontal support surface to maintain storage capabilities.

10 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 7. Document ID: US 4783971 A

L1: Entry 7 of 10

File: USPT

Nov 15, 1988

US-PAT-NO: 4783971

DOCUMENT-IDENTIFIER: US 4783971 A

TITLE: Refrigerator drain pan apparatus

DATE-ISSUED: November 15, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alba; Donald	Marengo	IA		

US-CL-CURRENT: 62/291; 248/225.11, 312/334.44, 312/350

ABSTRACT:

Refrigerator drain pan apparatus including a pair of spaced mounting brackets having longitudinal guide slots for receiving in sliding engagement the longitudinal rims of the drain pan. The brackets also have clamps for securely engaging gripper pads on the rims of the drain pan at the operating position for eliminating vibration noise. The guide slots include a rim support shelf and a parallel top panel space thereabove. Forward extending ramps guide the drain pan rims up into the guide slots. The clamps include V-shaped tabs positioned in front and back of the guide slots, which tabs extend below the plane of the top panel and engage the gripper pads in an interference fit at the operating position. The pan

also has bumpers protruding from the rims to engage the front V-shaped path at the operating position of the drain pan thereby providing a stop. An upward cone in the pan bottom provides a drip area for incoming water.

12 Claims, 8 Drawing figures
Exemplary Claim Number: 6
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 8. Document ID: US 4689511 A

L1: Entry 8 of 10

File: USPT

Aug 25, 1987

US-PAT-NO: 4689511

DOCUMENT-IDENTIFIER: US 4689511 A

TITLE: Drain assembly for an electric motor

DATE-ISSUED: August 25, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baker; Gerald N.	St. Louis County	MO		
Fischer; Carl R.	St. Louis County	MO		

US-CL-CURRENT: 310/88; 277/429, 310/157

ABSTRACT:

An improved drain structure for a vertically mounted electric motor to be positioned below a liquid sump into which the rotor shaft of the motor can be connected including a drip pan through which the rotor shaft passes, the pan having peripheral side walls and drain means attached thereto and a liquid slinger above the pan adapted to sling liquid leakage in a radially outward direction below the pan side walls to be drained away from the motor.

10 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 9. Document ID: US 4413592 A

L1: Entry 9 of 10

File: USPT

Nov 8, 1983

US-PAT-NO: 4413592

DOCUMENT-IDENTIFIER: US 4413592 A

TITLE: Water damage preventer pan

DATE-ISSUED: November 8, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jones; George D.	Baltimore	MD	21214	

US-CL-CURRENT: 122/510; 122/504, 126/278

ABSTRACT:

A water damage preventer pan has a horizontal support arrangement for an appliance to be set down on but a bottom sloped to a drain, and an unusually sturdy construction; the construction is of unitary plastic and the horizontal support arrangement includes a plurality of blocks inside the perimeter buttressing a rim outside them, both joining a bottom which is wedge-shaped in section so that it can rest flat on a floor but can drain rapidly down a good slope.

8 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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☐ 10. Document ID: US 3519233 A

L1: Entry 10 of 10

File: USPT

Jul 7, 1970

US-PAT-NO: 3519233

DOCUMENT-IDENTIFIER: US 3519233 A

TITLE: WATER HEATER STAND AND DRAIN PAN [TEXT AVAILABLE IN USOCR DATABASE]

DATE-ISSUED: July 7, 1970

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
LOGSDON DUANE D				

US-CL-CURRENT: 248/146

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
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Term	Documents
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4413592S	0
"5199457"	1
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"5392911"	1
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"6601593"	1
6601593S	0
"6318403"	1
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